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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,798	04/27/2007	David Hill	292530US2PCT	7002
22850 7590 03/12/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			MOULIS, THOMAS N	
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3747	
			NOTIFICATION DATE	DELIVERY MODE
			03/12/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/582,798	HILL, DAVID			
Office Action Summary	Examiner	Art Unit			
•	Thomas N. Moulis	3747			
The MAILING DATE of this communication app					
Period for Reply	·				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 14 Ju	ne 2006.				
3)☐ Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 11-20 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>11-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
_	_				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>14 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
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Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
·					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 11/14/06;7/24/07;10/1/07;12/13/07.					



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Piccirilli et al. US 6,539,899. The reference discloses the claimed elements of an electronically controlled electromechanical valve having at least three ports through which a fluid can flow and at least three different stable positions in which at least two ports are in fluid communication, the valve comprising: a stationary outer housing comprising at least three bores; a rotating inner section that rotates about an axis and comprises bores defining, with the bores of the housing, the at least three ports of the valve; and an electrical actuating system controlled by an electronic controller and configured to switch the valve from a first position to a second position by rotating an inner section about its axis. See Figures 2-6.

3.

4. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Manners et al. US 6,938,586. The reference discloses the claimed elements of an electronically controlled electromechanical valve having at least three ports through which a fluid can flow and at least three different stable positions in which at least two ports are in fluid communication, the valve comprising: a stationary outer housing

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comprising at least three bores; a rotating inner section that rotates about an axis and comprises bores defining, with the bores of the housing, the at least three ports of the valve; and an electrical actuating system controlled by an electronic controller and configured to switch the valve from a first position to a second position by rotating an inner section about its axis. See Figures 1-5.

5.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 12-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Piccirilli et al. in view of Manners et al. US 6,938,586 and Cook et al. US 4,703,737. The reference of Piccirilli et al. show the valve structure as described above and its use with an internal combustion engine. Not shown by Piccirilli et al. is the particular number of coils and magnets or use of the system with a fuel vapor control system. However, such solenoid valve details are known in the art and would have been obvious to one of ordinary skill in the art to utilize in accordance with desired valve and system performance. Moreover, using the known valve within a fuel vapor control system with the particular connects to the fuel tank and the other components of the

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vapor control system are within the level of skill in the art and shown by Manners et al. and Cook et al.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the cited documents showing valves with similar structure such as multiple ports which two ports are in fluid communication, a rotating inner section controlled with an electrical actuating system.

9.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas N. Moulis whose telephone number is 571 272 4852. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on 571 272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas N Moulis/ Primary Examiner Art Unit 3747

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